

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-17. **(Cancelled)**

18. **(Previously Presented)** A method for lining concrete structures comprising:

- (a) cleaning a surface of a concrete structure;
- (b) applying a foam liner material to said surface of said concrete structure; and
- (c) curing said foam liner material to form a surface layer and a barrier layer on said concrete structure.

19. **(Previously Presented)** The method of claim 18, wherein the foam liner material is a polyurea foam.

20. **(Previously Presented)** The method of claim 18, wherein the foam liner material is a polyurethane foam.

21. **(Previously Presented)** The method of claim 18, wherein step (a) further includes the steps of:

- (a) pressure washing the surface of the concrete structure; and
- (b) heat drying the surface of the concrete structure.

22. **(Previously Presented)** The method of claim 18, wherein said foam liner is applied directly to said surface of said concrete structure.

23. **(Previously Presented)** A method for lining concrete structures comprising:

- (a) cleaning a surface of a concrete structure;
- (b) applying a foam material directly to said surface of said concrete structure; and
- (c) curing said foam material to result in the formation of a protective liner over said concrete structure.

24. **(Previously Presented)** The method of claim 23, wherein the step of curing results in a protective liner with at least two separate layers.
25. **(Previously Presented)** The method of claim 23, wherein the step of curing results in a protective liner with at least three separate layers.
26. **(Previously Presented)** The method of claim 23, wherein the step of curing results in a protective liner comprised of an inner hard shell, an outer bonding layer and an insulative core between said hard shell and bonding layer.
27. **(Previously Presented)** The method of claim 24, wherein one of said layers provides rigidity and structural integrity to the liner.
28. **(Previously Presented)** The method of claim 24, wherein one of said layers is cellular in structure.
29. **(Previously Presented)** The method of claim 24, wherein one of said layers traps air within its structure to provide an insulating effect by said layer.
30. **(Previously Presented)** The method of claim 24, wherein one of said layers is a bonding layer that bonds the other layer to the surface of the concrete structure.
31. **(Previously Presented)** The method of claim 30, wherein said bonding layer seals the surface of the concrete structure.
32. **(Previously Presented)** The method of claim 25, wherein
  - (a) one of said layers provides rigidity and structural integrity to the liner;

(b) another of said layers is cellular in structure and traps air within a portion of said cells to provide an insulating effect by said layer; and

(c) another of said layers is a bonding layer that bonds the other layers to the surface of the concrete structure.

33. (New) **A concrete system comprising:**

**(a) a concrete structure defined by a surface; and**

**(b) a foam material applied directly to said surface of said concrete structure;**

**(c) wherein said foam material has two distinct layers once cured.**

34. (New) **The concrete system of Claim 33, wherein said foam material has three distinct layers once cured.**